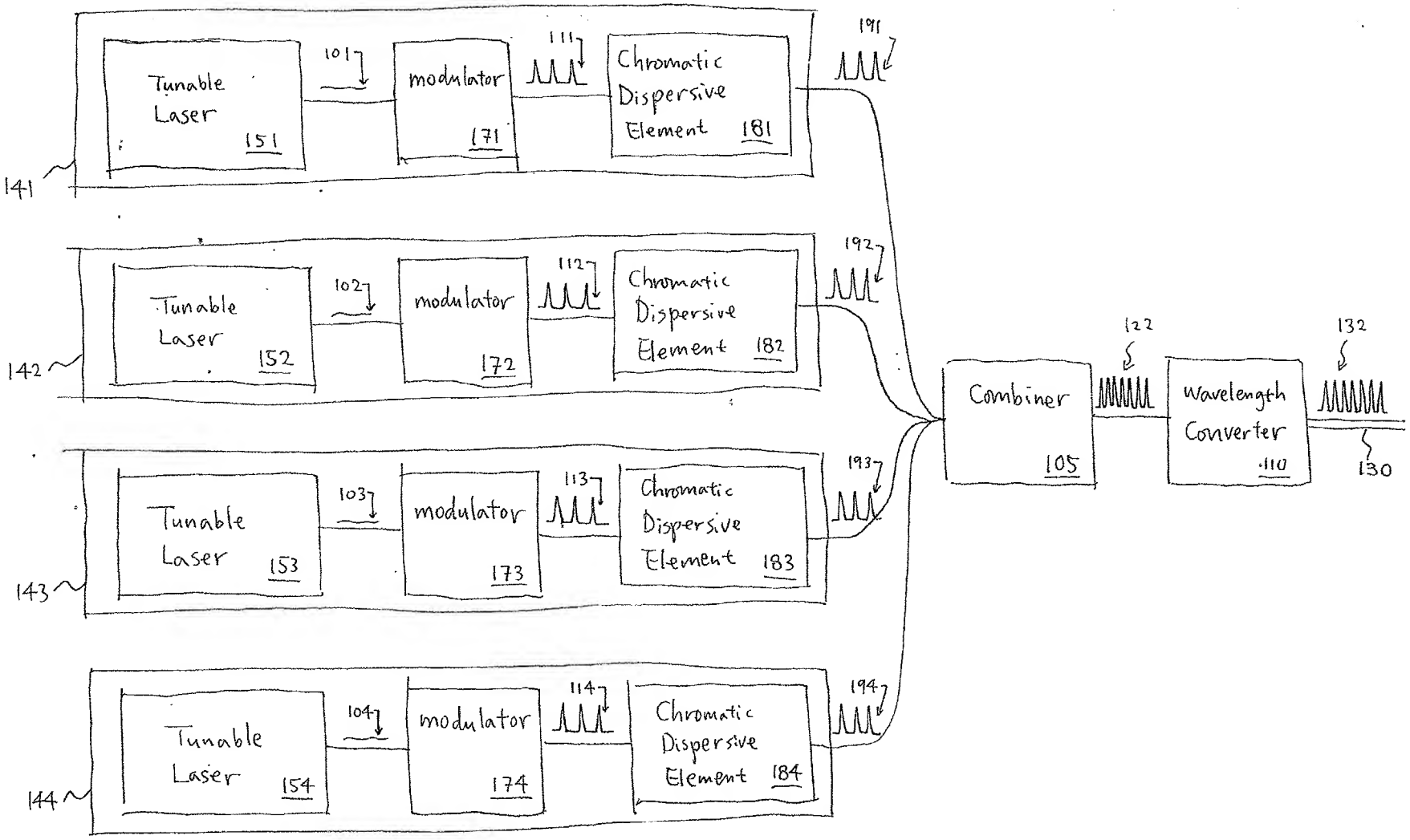
T0320+0 D9E+32E6D



100

Figure 1

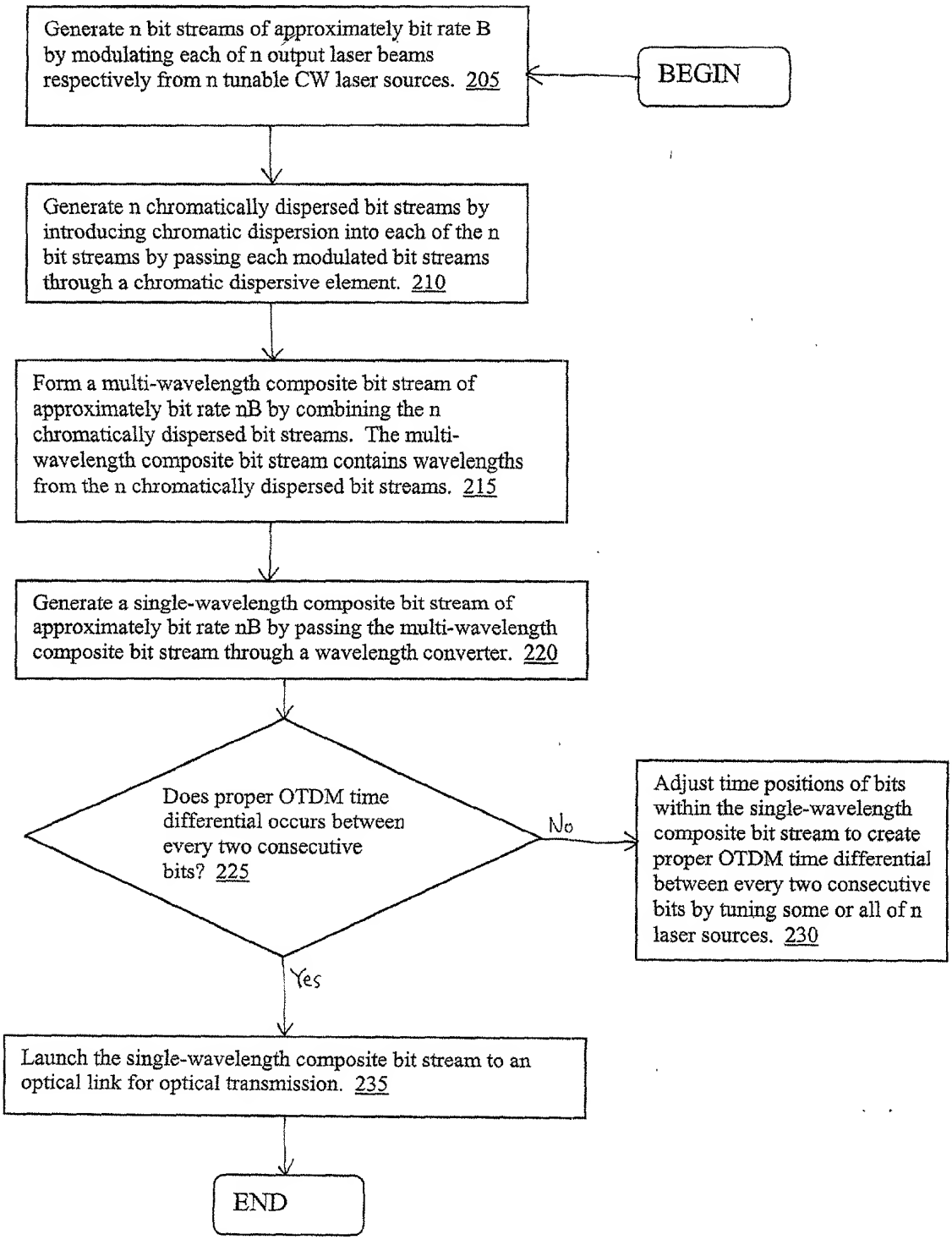

Generate n bit streams of approximately bit rate B by modulating each of n output laser beams respectively from n tunable CW laser sources. 205
BEGIN
Generate n chromatically dispersed bit streams by introducing chromatic dispersion into each of the n bit streams by passing each modulated bit streams through a chromatic dispersive element. 210
Form a multi-wavelength composite bit stream of approximately bit rate nB by combining the n chromatically dispersed bit streams. The multi-wavelength composite bit stream contains wavelengths from the n chromatically dispersed bit streams. 215
Generate a single-wavelength composite bit stream of approximately bit rate nB by passing the multi-wavelength composite bit stream through a wavelength converter. 220
Does proper OTDM time differential occurs between every two consecutive bits? 225
No
Adjust time positions of bits within the single-wavelength composite bit stream to create proper OTDM time differential between every two consecutive bits by tuning some or all of n laser sources. 230
Yes
Launch the single-wavelength composite bit stream to an optical link for optical transmission. 235
END

Figure 2

TOSHIBA DISCLOSED

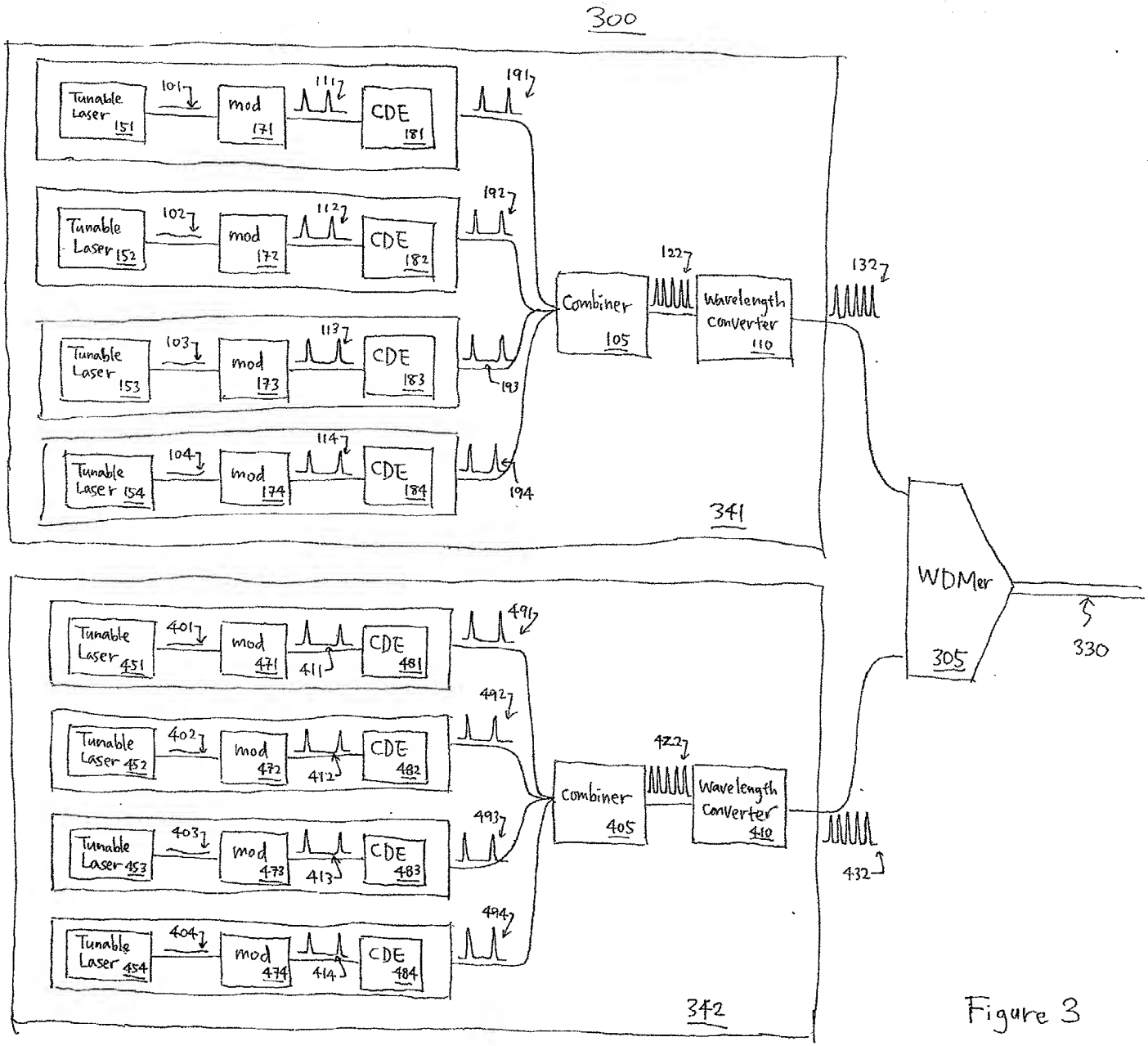


Figure 3